

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 2001085036
PUBLICATION DATE : 30-03-01

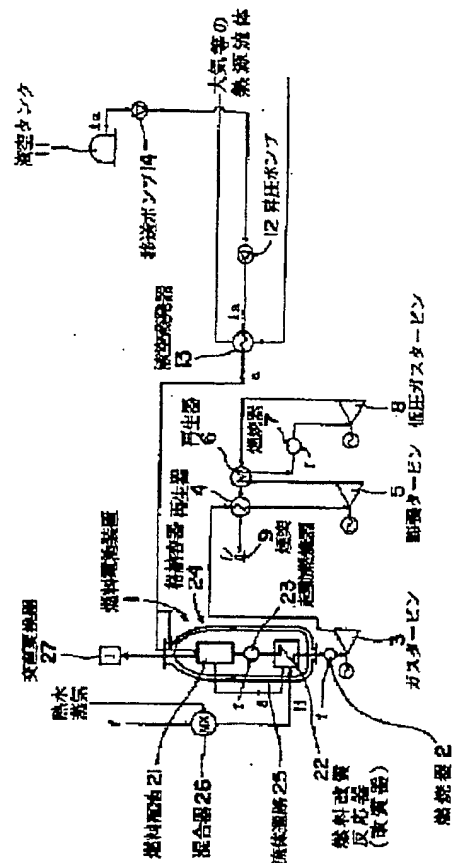
APPLICATION DATE : 10-09-99
APPLICATION NUMBER : 11256877

APPLICANT : MITSUBISHI HEAVY IND LTD;

INVENTOR : TSUJI TADASHI;

INT.CL. : H01M 8/04 F01K 23/10 F01K 25/14
F02C 3/14 F02C 3/22 F02C 6/00
H01M 8/06

TITLE : FUEL CELL DEVICE AND TURBINE
FACILITY



ABSTRACT : PROBLEM TO BE SOLVED: To enhance power generating efficiency by allowing a fuel cell to work in effective conditions with high oxygen concentration and high-pressure air and stabilize the fuel reforming using a reformer.

SOLUTION: A fuel cell 21 is configured so that a liquefied air 1a stored in a tank 11 is turned in high pressure by a pressure booster pump 12 and gasified and this air and a reformed gas from a reformer 22 are charged and thereby electric power is generated through electrochemical reactions. A starter combustor 23 heats the reformer 22 by combusting the exhaust gas from the fuel cell 21 together with the fuel, and the power generating efficiency is enhanced by allowing the fuel cell 21 to work in effective conditions with high oxygen concentration and high pressure air and also the fuel reforming by the reformer 22 is stabilized.

COPYRIGHT: (C)2001,JPO

BEST AVAILABLE COPY